

## **Future of Condition Based Maintenance at Stennis**

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This study seeks to understand the current state of condition based maintenance (CBM) at Stennis Space Center and set a bench mark for the future expansion of the CBM program. Condition based maintenance is the idea of maintaining an asset upon decreasing performance or when a failure is impending instead of at some arbitrary time regardless of condition. Special attention was paid to remote sensing and monitoring of assets around the center to cut maintenance costs and extend overall operational lifetime of those assets. It was found that 55 percent of the categories of assets which could actually utilize a remote CBM program are currently being partially monitored. CBM solutions that have been investigated and proposed for future deployment cover areas such as building integrity, oil analysis, power line and water pipe inspection.